

ABSTRACT OF THE DISCLOSURE

An assembly that includes a target component mounted for rotation about an axis, a sensor mounted adjacent the inner member and directed toward the
5 inner member to measure the rotational speed of the target component and an outer component interposed between the sensor and the target component. Low magnetic permeability of the outer component is assured by appropriate selection of the material, maintaining the concentration of martensite in the outer component below a reference concentration as indicated by certain reference indices such as the
10 Instability Function, and/or by maintaining the temperature at which a stamping operation is performed on the inner member above a pre-determined temperature.